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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,209	06/30/2003	Takashi Endo	500.42884X00	7652	
24956 7590 03/23/2007 MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. 1800 DIAGONAL ROAD SUITE 370 ALEXANDRIA, VA 22314			EXAM	EXAMINER	
			NGO, CHUONG D		
			ART UNIT	PAPER NUMBER	
			2193		
SHORTENED STATUTORY PE	RIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTH	S	03/23/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/608,209	ENDO ET AL.				
		Examiner	Art Unit				
		Chuong D. Ngo	2193				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on 24 Oc	otober 2006					
	This action is FINAL . 2b) This action is non-final.						
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	ion of Claims						
4)⊠	Claim(s) <u>1,2 and 4-6</u> is/are pending in the appli						
-, -	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	Claim(s) <u>1-6</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>30 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	under 35 U.S.C. § 119						
	-	mainaite et 05 H 0 0 0 4404)	(N				
a)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
	See the attached detailed Office action for a list of	of the certified copies not received	d.				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) 🔲 Infor	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
Patent and Trademark Office.							

1. The amendment filed 10/24/2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure are the information processing apparatus comprising a first memory of n bits sufficient for storing the modulus P, a second memory of m bits sufficient for storing said input value x, a third memory for storing 2^(2m+n) mod P, and the Montgomery modular multiplication device as recited now in claims 1,2 and 6.

Applicant is required to cancel the new matter in the reply to this Office Action.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In particular, the specification does not support for the information processing apparatus comprising a first memory of n bits sufficient for storing the modulus P, a second memory of m

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bits sufficient for storing said input value x, a third memory for storing $2^{2m+n} \mod P$, and the Montgomery modular multiplication device as recited now in claims 1,2 and 6.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1,2 and 6 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1 and 2 are directed to a computer implemented method of calculation where the inputs are numbers and the results are also numbers. Claim 6 is directed to a non-specific apparatus implementing the method. In order for a claimed invention that is directed to such a computer implemented method or a non specific apparatus that performs calculations according to a mathematical algorithm to be statutory, the claimed invention must accomplish a practical application. That is the claimed invention must transform an article or physical object to a different state or thing, or produce a useful, concrete and tangible result. State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. Also see "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility", OG Notices: 22 November 2005. It is clear from claims 1,2 and 6 that the claims merely involves calculations and manipulations of data in performing computations. The claimed invention does not result in a physical transformation. The result of the invention is a mere numerical value without a practical application recited in the claims and thus is not a real-work result. therefore, the result is not useful, concrete and tangible. Therefore, the 1,2 and 6 are directed to non-statutory subject matter as the claims fail to

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accomplish a practical application.

- 5. Applicant's arguments filed 10/24/2006 have been fully considered but they are not persuasive because the final result produced by the invention of claims 1,2 and 6 is clearly a mere numbers that does not have a real word value. Claims 1,2 and 6 clearly fail recite a practical application to make the result produced by the claimed invention useful, and thus are directed to non-statutory subject matter as the invention fail to accomplish a practical application.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chuong D Ngo Primary Examiner Art Unit 2193

03/18/2007